

NSLS TECHNICAL NOTE BROOKHAVEN NATIONAL LABORATORY	NUMBER 541
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TITLE ASCII Protocol Bridge (<i>Userver.exe</i>) Installation Instructions	

The latest version of the NSLS Control System ASCII Protocol Bridge (*Userver.exe*) can be found on the Nslsnas file server under the directory *UCODE_v#.##*. Previous versions can also be found in directories identified with their respective numerical version suffix.

Each directory contains the file *userver.exe*, which should be copied into the root directory (c:\) of the PC that will need to use the protocol bridge. The file *hosts.txt* contains a host table for the control system and is should be incorporated into the local host table (*system32\drivers\etc\hosts*) on the PC.

The directory also contains a set of LabView sub-VI's (bindings) that are used to communicate with the installed protocol bridge server. The file *ucode_init.vi* contains the UCODE-Initialization sub-VI and will automatically start the server, as a detached process, the first time it is called. It uses the UCODE-Open sub-VI contained in the file *ucode_open.vi*. The file *ucode_nxfer.vi* contains the UCODE-nTransfer sub-VI used to pass multiple commands to the control system device server(s) and return the results. The file *ucode_xfer.vi* contains a sub-VI that passes a single command and returns the results, and is used by the UCODE-nTransfer sub-VI.

The *userver.exe* can alternately be used without the LabView bindings and communicated to by opening the TCP port 4999 and sending the commands as specified in the ASCII Protocol Bridge technical note ([Instructions for Using the Userver ASCII-based Interface Layer \(NSLS Tech Note 534\)](#) by Richard Michta) that describes the command set syntax.